

LANGLEY TECHNICAL SECTION

I. Wire Unit

1. Main Signal Center

- a. The preventive maintenance schedule for the month of May is current.
- b. The Terminal Relay ASR has been modified for low level keying using R-20E relays. Drawings were made up for drafting.
- c. The NPIC/OCR Cifax System has been reliable since it became operational on 29 April 1966.
- d. Engineering tests are being made on a low level circuit from the Crypto Facility to the Primary Facility utilizing a numbering module with a gold plated wiper switch. So far, the test has been satisfactory.

2. Trouble Reports

Troubles reported and corrected in the Washington Area are as follows:

a. Langley Signal Centers

(1)	Cryptographic Equipment	-	92
(2)	Teletype and Miscellaneous Equipment	-	305

TOTAL: 397

b. Outside Area Signal Centers

(1)	Cryptographic Equipment	-	11
(2)	Teletype and Miscellaneous Equipment	-	26

TOTAL: 37

3. Installations

Installed a KSR half duplex in Room 3B0001, Headquarters Building.

I. Wire Unit (Continued)

4. Miscellaneous

Responded to a request from OC-AD to repair a trouble on the DOD's KW-7 circuit in [REDACTED]

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II. Electronic Unit

1. KY-3 Program

a. Installations

- (1) A Call-Director installation was completed in the offices of the DCI and Mr. [REDACTED]
- (2) A KY-3 with three extensions was installed at the DCI residence, McLean, Va.
- (3) Installed a Call-Director in 2D00, Headquarters Building.
- (4) Completed a KY-3 installation in [REDACTED] for DDP/WH.

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b. Trouble Reports

Eighty-two KY-3 sets are now operational. The following reflects the troubles for the month:

- |                                |                  |
|--------------------------------|------------------|
| (1) Set Troubles               | - 26 each        |
| (2) Distant End Troubles       | - 5 each         |
| (3) Operator Error             | - 12 each        |
| (4) Telephone Company Troubles | - <u>25 each</u> |

TOTAL: 68 each

2. CIA Cifax System

a. Four troubles were reported and corrected.

b. The State/CIA auto sync. units, which were installed last month, have been trouble free.

3. DCI/SO Very-High-Frequency Net

One trouble was reported and corrected.

4. KY-5

Two troubles were reported and corrected.

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II. Electronic Unit (Continued)

5. Microwave

The air-conditioner in the Headquarters Microwave Room is being repaired. A new compressor is on order for the unit. No troubles have been encountered.

6. HY-2/KG-13 Headquarters/Saigon Voice Circuit

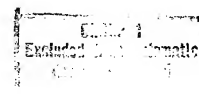
- a. The system has been trouble free during this reporting period.
- b. Modified a tape recorder to record incoming and outgoing calls on the circuit.

OVERTIME

A total of one hundred and fifty-three hours of overtime was worked during this reporting period.

TSB SUPPLY SECTION

1. As of 25 May 1966 a total of approximately \$236,339.19 was expended.  
  
For the period of 27 April through 25 May 1966 a total of \$36,344.05 was spent covering 11 requisitions of 369 line items.
2. Field Requests  
  
A total of 90 field requests consisting of 1229 line items were processed. One thousand one hundred and fifty-seven line items were shipped immediately for a 94.2% average.
3. A procurement memo with drawings attached was sent to MSB ordering up KY-3 spares for warehouse stock.
4. A list of HY-2 DCRP parts was recommended to OC-S for ordering.



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## Overtime -

1. Staff Employees 32 Hours.
2. Contract Employees 0 Hours.

T & I UNIT

1. Fifty-seven transceivers were channalized this month.
2. Many discussions were held this month with ~~\_\_\_\_\_~~ 25X1A5a1  
25X1A5a1 ~~\_\_\_\_\_~~ The subjects of the discussions were ~~\_\_\_\_\_~~ side-  
25X1A5a1 band exciters, ~~\_\_\_\_\_~~ SBE-2's and PAL-350's and the apparent lack  
of Quality Control at their respective plants. No positive re-  
sults have been seen yet by T & I, but all of the mentioned equip-  
ments are going to receive a high quality check when received by  
T & I and are going to be rechecked after a twenty-four hour warm  
up.
3. Listed are some of the items of equipment processed this month:

	<u>Accepted</u>	<u>Rejected</u>
Six Stoddart Field Intensity Test Sets	6	0
Twenty-six Delco 5300 Transceivers	26	0
Fourteen RS-50 Carrier Current Transceivers	13	1
Four Kel Com SK-5 Transceiver/Recorders	2	2
Fifty-eight KE-8E Keyers	6	52
Forty-six RT-48 Transmitters	45	1
Eight TMC GPE-1 Exciters	7	1
Sixty-seven Kel Corp. ASR-100 Transceivers	61	6
Seventy HG-48A Generators	70	0
Five HRO Receivers	1	4
Fifty G.E. Porta Mobiles	47	3
Seventy-one Motorola Handie Talkies	52	19
Fourteen CEI Receivers, 30 - 300 MC	14	0
Twenty-five RR-49 Receivers	25	0
Ten G.E. Master Line Transceivers	10	0
Three Kahn LSSB-63-1A Exciters	0	3
Four ARC Transceivers	3	1
Forty-three RT/B-48A Transmitters	41	2

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GROUP 1  
 Excluded from automatic  
 downgrading and

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	<u>Accepted</u>	<u>Rejected</u>
Fifty-eight BC-48A Battery Chargers	58	0
Twenty-eight Kahn RSSB-62-1B Converters	24	4
Nine RT-49 Transmitters	0	9
Three Motorola P-31 Transceivers	3	0
Nine SP-600 JX Receivers	0	9
*Six hundred Hallicrafter HT-1C Transceivers	600	0
*Fifty Hallicrafter TR-20H Transceivers	50	0

IN-PLANT INSPECTIONS

<u>Company</u>	<u>Location</u>	<u>Equipment</u>	<u>Accepted</u>	<u>Rejected</u>
25X1A5a1		Type 1 Stations	5	0
		Type 1 Stations	5	0
		Type 1 Stations	3	0
		8 PAC	0	0
		HF-5 AM Transmitter	1	0
		SBE-2A's	9	13
		SBC-1A's	12	2

ELECTRONIC/TELETYPE REHAB UNIT

1. The Electronic Technicians processed one hundred ninety-one items of PTI equipment, twenty-seven items on job orders, and twenty items on repair requests.
2. There were no major pieces of teletype equipment processed this month, but twenty-eight minor items were processed.
3. Approximately seventy man-hours were expended on teletype equipment for the 8 PAC Project.

\* Checked at 

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declassification

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3. One hundred eighty PRC-10 units were processed from C-5 stock to C-1 stock.

CRYSTAL UNIT

The CR-78 and the CR-81 crystals for FTS stock have begun to arrive. Indications are that delivery will be finished by August; two months ahead of schedule.

Totals	Requisitions	Crystals
New Orders	66	2759
Orders Completed	56	1894
Backlog	14	1344
Due In	8	843

ENGINEERING UNIT

1. All commercial literature for OC Standard Test Equipment Catalogues was delivered to the Drafting Unit for assembly.
2. The Quarterly Test Equipment Status List was revised, and two changes were recommended.
3. Test Procedures for the BS/D-48 Power Supply and the ASR-100 Transceiver have been completed. The ASR-100 procedure will be of little use to the field until additional ASR-100 Test Jigs are supplied by [REDACTED]
4. A TDY trip to [REDACTED] was completed on 20 May. The purpose of the trip was to inspect and evaluate an Alignment Test Set for the ASR-100.
5. In a conversation with Mr. [REDACTED] in [REDACTED] portation, it was pointed out that [REDACTED] intends to go into an extensive repackaging program over the next two years. Solid state components will be emphasized up to a frequency value of 5 Gc. No actual dates were given, but evidently the program is firm and has already been initiated.

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CALIBRATION UNIT

1. Twenty-five pieces of test equipment were processed and returned to service, and two pieces of equipment were processed for cargo.

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2. [REDACTED] is evidently having a great deal of trouble with our 1110 Spectrum Analyzer. They have returned it three times, and in every case it did not perform satisfactory. They loaned us a new unit, but it did not work either. No solution has been found to the problem as of this date.
3. The Frequency Standard, Error Expander, VLF Receiver, Distribution Amplifier, and a Communications Receiver are mounted in a nineteen inch rack located in the calibration room. The next step will be to run coaxial cable to the Electronic Counters in the Crystal Lab.

MECHANICAL UNIT

1. The TIN-E-MITE fork lift from [REDACTED] was received and checked. It is presently being evaluated. 25X1A5a1
2. Four heads for use with the vacuum plater are about ninety per cent completed.

POWER UNIT

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1. The [REDACTED] Tower power unit was checked out, and arrangements made to check the system every two weeks.
2. Both Commo/Buda diesel trucks are now running normally. They will be checked out on a routine basis from now on.
3. Operationally or visually checked ten power units this month plus the usual minor inspections of small parts.

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1. One hundred fifty-six debit vouchers totaling three hundred twelve line items and seven cargo vouchers consisting of twenty line items were processed this month.

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2. Mr. [REDACTED] visited the shop and checked a Mincom H-114 Recorder.
3. The work load this month was not at its previous high level, but it is known that there is nine hundred pieces of communications equipment due in.

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